

Putnam VT Multi-Asset Absolute Return Fund

Full holdings as of June 30, 2019

MLFCF15 R US0003M P 06/20/23 BA	41.15
CGPUTQL2 R US0003M P 11/26/19 CI	37.45
US 10YR NOTE (CBT)SEP19 TYU9	36.31
GSGLPWDL R US0001M P 12/15/20 GS	35.18
GSGLPW2L R US0001M P 12/15/20 GS	33.12
REPO TRIPA MORTG 2.51 07/01/2019	16.06
S&P MID 400 EMINI SEP19 FAU9	12.98
GSVIUS85 R 0.45 P 12/15/20 GS	3.97
GSISXT27 R 0.2 P 12/15/20 GS	3.94
FNMA FN30 TBA UMBS 04.0000 07/01/2049	3.62
FNMA FN30 TBA UMBS 03.5000 08/01/2049	3.58
XLE US R US0001M P 03/25/20 JP	2.63
GSVIVV69 R 0.3 P 12/15/20 GS	2.03
BAML COMMODITY MLBX4SX6 ER STRATEGY 3X 144A NOTE 12/12/2019	1.50
SAMSUNG ELECTRONICS CO LTD SEDOL 6771720	1.42
REAL ESTATE SELECT SECT SPDR SEDOL BYZ65Y9	1.41
UTILITIES SELECT SECTOR SPDR SEDOL 2371812	1.40
CONSUMER STAPLES SPDR SEDOL 2369389	1.37
INDUSTRIAL SELECT SECT SPDR SEDOL 2502139	1.35
GSVICUB3 R 0.45 P 12/15/20 GS	1.33
FINANCIAL SELECT SECTOR SPDR SEDOL 2364038	1.33
COMM SERV SELECT SECTOR SPDR SEDOL BFXHC51	1.33
NDEUSIA R US0003M P 02/12/20 UB	1.30
DJUBS L F3 - S F0 INDEX 3X 144A NOTE 3/23/2020	1.26
TREASURY BILL 00.0000 08/06/2019	1.17
CITI COMMOD F3-F0 4X LEVERED INDEX 3X NOTE 12/16/2019	1.06
CITI CROSS-ASSET TREND 10% VOL INDEX 3X 144A NOTE 8/27/19	1.01
ISHARES MSCI INDIA ETF SEDOL B6XGR72	0.98
TREASURY BILL 00.0000 07/16/2019	0.91
TOTAL CAPITAL CANADA LTD 89153QUA6 DCP 07/10/2019	0.88
REGENCY MARKETS NO. 1 LLC 7588R1UA1 DCP 07/10/2019	0.88
NRW BANK 62939MUB1 DCP 07/11/2019	0.88
METLIFE SHORT TERM FUNDING LL 59157UUH1 DCP 07/17/2019	0.87
NATIONAL BANK OF CANADA 63307MUV9 DCP 07/29/2019	0.87
BANK OF NEW YORK MELLON/THE 06406XUX0 DCP 07/31/2019	0.87
ALPINE SECURITIZATION LLC 02088XUX4 DCP 07/31/2019	0.87
TORONTO-DOMINION BANK/THE 89119BV60 DCP 08/06/2019	0.87
CHARIOT FUNDING LLC 15963UVD5 DCP 08/13/2019	0.87
DNB BANK ASA 2332K1VF4 DCP 08/15/2019	0.87
MANHATTAN ASSET FUNDING CO LL 56274MVL3 DCP 08/20/2019	0.87
SIMON PROPERTY GROUP LP 82880XVK3 DCP 08/19/2019	0.87
BARCLAYS BANK PLC CCP 06742QWG3 DCP 08/21/2019	0.87
ATLANTIC ASSET SECURITIZATION 04821UVT6 DCP 08/27/2019	0.87
THUNDER BAY FUNDING LLC 88602UW48 DCP 09/04/2019	0.87
MATCHPOINT FINANCE PLC 57666BWK2 DCP 09/19/2019	0.87

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DJUBS LONG F3 - SHORT DJUBS F0 3X 144A NOTE 1/28/2020	0.85
TENCENT HOLDINGS LTD SEDOL BMMV2K8	0.81
PING AN INSURANCE GROUP CO-H SEDOL B01FLR7	0.72
ALIBABA GROUP HOLDING-SP ADR SEDOL BP41ZD1	0.68
GSVIVVOL R 0.3 P 12/15/20 GS	0.67
MBX.GII30.450.10 R USL1M P 01/12/41 CS	0.63
CHINA MOBILE LTD SEDOL 6073556	0.62
IND & COMM BK OF CHINA-H SEDOL B1G1QD8	0.59
TAIWAN SEMICONDUCTOR-SP ADR SEDOL 2113382	0.54
SK HYNIX INC SEDOL 6450267	0.49
S&P GSCI EXCESS RETURN INDEX 3X NOTE 1/27/2020	0.46
KIA MOTORS CORP SEDOL 6490928	0.46
BAML COMMODITY MLBX4SX6 EXCESS RETURN STRATEGY 3X144A NOTE	0.45
PTT PCL/FOREIGN SEDOL BD0BDJ3	0.44
BANCO DO BRASIL S.A. SEDOL 2328595	0.43
S&P GSCI TOTAL RETURN 3X 144A NOTE 01/27/2020	0.43
WALMART DE MEXICO SAB DE CV SEDOL BW1YVH8	0.43
ANHUI CONCH CEMENT CO LTD-H SEDOL 6080396	0.42
EVRAZ PLC SEDOL B71N6K8	0.40
TREASURY BILL 00.0000 08/13/2019	0.38
CIA SANEAMENTO BASICO DE SP SEDOL B1YCHL8	0.38
GREE ELECTRIC 144A/REGS WARRANT 08/29/2019	0.37
IRB BRASIL RESSEGUROS SA SEDOL BYZ6D56	0.37
CHINA PETROLEUM & CHEMICAL-H SEDOL 6291819	0.36
WEICHAJ POWER CO LTD-H SEDOL 6743956	0.36
BANK OF SHANGHAI 144A REGS WARRANT 12/12/2019	0.35
PTT GLOBAL CHEMICAL PCL-FOR SEDOL B736PF3	0.33
SPST 2018-5 A 03.1296 09/24/2019	0.32
GUANGZHOU AUTOMOBILE GROUP-H SEDOL B433995	0.31
LG UPLUS CORP SEDOL 6290902	0.31
CAS 2016-C02 1B 14.6544 09/25/2028	0.30
SBERBANK PJSC -SPONSORED ADR SEDOL B5SC091	0.29
YUM CHINA HOLDINGS INC SEDOL BYW4289	0.28
BANK OF COMMUNICATIONS - H SEDOL B0B8Z29	0.28
CDX CDX.NA.HY.32 500.0 06/20/2024	0.27
BANCO ITAU HOLDING PFD SEDOL B037HR3 PCT 0.00	0.27
COUNTRY GARDEN HOLDINGS CO SEDOL B1VKYN6	0.27
REPUBLICA ORIENT URUGUAY USD 04.3750 10/27/2027	0.26
UNI-PRESIDENT ENTERPRISES CO SEDOL 6700393	0.26
BANCO SANTANDER BRASIL-UNIT SEDOL B4V5RY4	0.25
CATCHER TECHNOLOGY CO LTD SEDOL 6186669	0.25
WFRBS 2012-C7 F P/P 144A 04.5000 06/15/2045	0.25
ECOPETROL SA-SPONSORED ADR SEDOL B3D6J19	0.25
GEELY AUTOMOBILE HOLDINGS LT SEDOL 6531827	0.23
PROVINCIA DE BUENOS P/P 144A 10.8750 01/26/2021	0.22

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MR PRICE GROUP LTD	SEDOL BYXW419	0.21
BANCO MACRO SA-ADR	SEDOL B0Y62M9	0.21
HYPERA SA	SEDOL B2QY968	0.21
PRESIDENT CHAIN STORE CORP	SEDOL 6704986	0.20
ZHEN DING TECHNOLOGY HOLDING	SEDOL B734XQ4	0.20
KUMBA IRON ORE LTD	SEDOL B1G4262	0.20
FNR 2017-74 SA IO	03.3456 10/25/2047	0.19
GUANGZHOU R&F PROPERTIES - H	SEDOL B19H8Y8	0.19
SPST 2018-3 A	03.1296 07/24/2019	0.18
PETRONAS CHEMICALS GROUP BHD	SEDOL B5KQGT3	0.17
BANCO SANTANDER MEXICO SA IN	SEDOL BF1FXN2	0.17
QUALICORP CONS E CORR SEG SA	SEDOL B4LHBQ0	0.17
SAMSUNG SDS CO LTD	SEDOL BRS2KY0	0.17
HOME PRODUCT CENTER PCL-FOR	SEDOL 6418533	0.17
SINOTRUK HONG KONG LTD	SEDOL B296ZH4	0.16
FOSUN INTERNATIONAL	SEDOL B1Z7FX0	0.16
UNITED MEXICAN STATES	USD 05.5500 01/21/2045	0.16
GUANGZHOU BAIYUNSHAN PHARM-H	SEDOL 6084387	0.16
ANGLO AMERICAN PLATINUM LTD	SEDOL 6761000	0.16
RADIANT OPTO-ELECTRONICS COR	SEDOL 6520278	0.15
FNR 2016-3 MI IO	05.5000 02/25/2046	0.15
GRUPO FINANCIERO BANORTE-O	SEDOL 2421041	0.14
ZHONGSHENG GROUP HOLDINGS	SEDOL B633D97	0.14
GNR 2014-184 DI IO	05.5000 12/16/2044	0.14
BANCO SANTANDER-CHILE-ADR	SEDOL 2136646	0.14
TELKOM SA SOC LTD	SEDOL 6588577	0.14
CAPITEC BANK HOLDINGS LTD	SEDOL 6440859	0.14
SMILES FIDELIDADE SA	SEDOL BF2JKY3	0.14
FNR 2015-30 IO IO	05.5000 05/25/2045	0.14
SHINHAN FINANCIAL GROUP LTD	SEDOL 6397502	0.13
FNR 2018-51 IO IO	06.5000 07/25/2048	0.13
CMLTI 2007-AR5 1A1A	04.7409 04/25/2037	0.13
YUANTA FINANCIAL HOLDING CO	SEDOL 6424110	0.12
DAELIM INDUSTRIAL CO LTD	SEDOL 6249584	0.12
CHINA RESOURCES SANJIU MEDICAL & PHARMA 144A REGS 01/29/2020		0.12
SURGUTNEFTEGAS-PREFERENCE	SEDOL 5005884	0.12
WANT WANT CHINA HOLDINGS LTD	SEDOL B2Q14Z3	0.12
ENEL AMERICAS SA-ADR	SEDOL 2314947	0.12
FORMOSA CHEMICALS & FIBRE	SEDOL 6348715	0.12
GNR 2010-125 SD IO	04.2858 01/16/2040	0.11
TRIPOD TECHNOLOGY CORP	SEDOL 6305721	0.11
INDUSTRIAL BANK OF KOREA	SEDOL 6462972	0.11
NASPERS LTD-N SHS	SEDOL 6622691	0.11
GLOBALWAFERS CO LTD	SEDOL BS7JP33	0.11
POWSZECHNY ZAKLAD UBEZPIECZE	SEDOL B63DG21	0.11

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UBSBB 2013-C6 E	P/P 144A 03.5000 04/10/2046	0.11
CAS 2019-R04 2M2	04.5044 06/25/2039	0.11
SK TELECOM	SEDOL 6224871	0.11
PETROBRAS GLOBAL FIN	USD 05.9990 01/27/2028	0.10
CIA CERVECERIAS UNI-SPON ADR	SEDOL 2217596	0.10
VIPSHOP HOLDINGS LTD - ADR	SEDOL B3N0H17	0.10
OTP BANK RT	SEDOL 7320154	0.10
MWST 2019-1 A	03.2044 06/25/2052	0.10
HYUNDAI MOBIS CO LTD	SEDOL 6449544	0.10
TCI CO LTD	SEDOL B6X51B1	0.10
GNR 2016-135 PI IO	04.0000 05/20/2046	0.10
KOREA ZINC CO LTD	SEDOL 6495428	0.10
SPST 2019-3 A	03.1296 06/24/2020	0.09
RHB BANK BHD	SEDOL 6244675	0.09
ELECTRICITY GEN PUB CO-FOR R	SEDOL 6304643	0.09
BANK OF CHINA LTD-H	SEDOL B154564	0.09
GNR 2016-H02 BI IO	01.8852 11/20/2065	0.09
GNR 2015-H24 HI IO	02.0285 09/20/2065	0.09
GSMS 2014-GC24 D	P/P 144A 04.6707 09/10/2047	0.09
INTER RAO UES PJSC	SEDOL B39RRN4	0.08
WFMBS 2005-AR4 1A3	05.1653 04/25/2035	0.08
TISCO FINANCIAL-FOREIGN	SEDOL B3KFW76	0.08
MMC NORILSK NICKEL PJSC-ADR	SEDOL BYSW6D0	0.08
PETROBRAS GLOBAL FINANCE	USD 06.2500 03/17/2024	0.08
GNR 2015-H15 JI IO	01.9717 06/20/2065	0.08
GNR 2017-H11 NI IO	02.2977 05/20/2067	0.08
HAIER ELECTRONICS GROUP CO	SEDOL B1TL3R8	0.08
GNR 2015-H25 BI IO	01.9048 10/20/2065	0.08
SEAZEN HOLDINGS CO 144A/REGS WARRANT	04/17/2020	0.08
ENBRIDGE INC	USD 04.2500 12/01/2026	0.08
SEVERSTAL PJSC	SEDOL B0561N2	0.08
GLOW ENERGY PCL - FOREIGN	SEDOL B074GX9	0.08
BANCO DE CHILE-ADR	SEDOL 2834252	0.08
GNR 2010-68 SD IO	04.1971 06/20/2040	0.07
FNR 2017-8 SB IO	03.6956 02/25/2047	0.07
GNR 2016-150 I IO	05.0000 11/20/2046	0.07
WAMU 2004-AR12 A2B	03.3244 10/25/2044	0.07
GNR 2018-91 SJ IO	03.8671 07/20/2048	0.07
2.05 R ISWP FWD US0003M P	09/18/2029	0.07
TEKFEN HOLDING AS	SEDOL B29D241	0.07
HM SAMPOERNA TBK PT	SEDOL 6404242	0.07
GNR 2017-H14 DI IO	01.7088 06/20/2067	0.07
GENTING BHD	SEDOL B1VXJL8	0.07
SHINSEGAE INTERNATIONAL INC	SEDOL B6SKWR4	0.07
GRUPO AEROPORTUARIO DEL CENT	SEDOL B1KFX13	0.07

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LOGAN PROPERTY HOLDINGS COL SEDOL BH6X937	0.07
GNR 2015-H25 AI IO 01.6143 09/20/2065	0.07
WFRBS 2011-C3 E P/P 144A05.0000 03/15/2044	0.06
SPY 20200619 P 255.00JPMCB	0.06
GNR 2018-104 SD IO 03.8171 08/20/2048	0.06
LG CORP SEDOL 6537030	0.06
CHAROEN POKPHAND FOOD-FORGN SEDOL B5L2DG6	0.06
GNR 2015-H26 GI IO 01.8026 10/20/2065	0.06
FNR 2013-130 SD IO 04.1956 01/25/2044	0.06
INDOFOOD SUKSES MAKMUR TBK P SEDOL 6283979	0.06
GNR 2017-H02 BI IO 02.3484 01/20/2067	0.06
GNR 2018-H05 AI IO 02.4150 02/20/2068	0.06
CAS 2018-C05 1M2 04.7544 01/25/2031	0.06
CHINA RAILWAY GROUP LTD-H SEDOL B297KM7	0.06
GNR 2015-H09 AI IO 02.0578 04/20/2065	0.06
GNR 2015-H24 BI IO 01.6182 08/20/2065	0.05
GNR 2018-127 IB IO 04.5000 06/20/2045	0.05
AIRASIA GROUP BHD SEDOL B03J9L7	0.05
NOVOLIPETSK STEEL PJSC-GDR SEDOL BORTNX3	0.05
GNR 2015-H20 CI IO 01.9767 08/20/2065	0.05
GNR 2015-H19 NI IO 01.9156 07/20/2065	0.05
GNR 2014-H21 AI IO 01.6432 10/20/2064	0.05
FORMOSA PLASTICS CORP SEDOL 6348544	0.05
ANTOFAGASTA PLC SEDOL 0045614	0.05
SPY 20200417 P 255.00BANKAM	0.05
GNR 2015-80 IA IO 04.5000 06/20/2045	0.05
GNR 2015-H09 BI IO 01.6995 03/20/2065	0.05
FHR 4259 DI IO 04.0000 06/15/2043	0.05
FORD OTOMOTIV SEDOL B03MSR5	0.05
FHR 4134 PI IO 03.0000 11/15/2042	0.05
FNR 2016-65 CS IO 03.6956 09/25/2046	0.05
SPY 20200515 P 250.00BANKAM	0.05
JPMBB 2013-C14 E P/P 144A04.7134 08/15/2046	0.05
UNITED TRACTORS TBK PT SEDOL 6230845	0.05
GNR 2015-187 JI IO 04.0000 03/20/2045	0.05
LUKOIL PJSC-SPON ADR SEDOL BYZDW27	0.05
FHR 4801 IG IO 03.0000 06/15/2048	0.05
GNR 2013-6 AI IO 03.5000 08/20/2039	0.05
GENTING MALAYSIA BHD SEDOL B1VXKN7	0.05
GNR 2015-H22 GI IO 02.5745 09/20/2065	0.05
PETROBRAS GLOBAL FINANCE USD 06.1250 01/17/2022	0.05
FNR 2017-2 KI IO 04.0000 02/25/2047	0.05
CHINA ORIENTAL GROUP CO LTD SEDOL 6741013	0.04
GNR 2016-H03 AI IO 02.1154 01/20/2066	0.04
GNR 2017-H06 BI IO 02.3610 02/20/2067	0.04

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UBSBB 2012-C2 F P/P 144A 05.0000 05/10/2063	0.04
PETROBRAS GLOBAL FINANCE USD 08.7500 05/23/2026	0.04
GNR 2015-H10 CI IO 01.8163 04/20/2065	0.04
GNR 2015-53 MI IO 04.0000 04/16/2045	0.04
SAO MARTINHO SA SEDOL B1P3R43	0.04
CAS 2015-C04 1M2 08.1044 04/25/2028	0.04
JASTRZEBSKA SPOLKA WEGLOWA S SEDOL B6R2S06	0.04
GNR 2015-105 LI IO 05.0000 10/20/2039	0.04
GNR 2016-37 IW IO 04.5000 02/20/2046	0.04
TIANNENG POWER INTL LTD SEDOL B1XDJC7	0.04
CAS 2017-C02 2B1 07.9044 09/25/2029	0.04
FNR 2016-3 NI IO 06.0000 02/25/2046	0.04
CHINA CONSTRUCTION BANK-H SEDOL BOLMTQ3	0.04
SPY 20200320 P 250.00JPMCB	0.04
GNR 2015-167 BI IO 04.5000 04/16/2045	0.04
HANNSTAR DISPLAY CORP SEDOL 6381828	0.04
GNR 2014-146 EI IO 05.0000 10/20/2044	0.04
GNR 2016-75 EI IO 03.5000 08/20/2045	0.04
GNR 2010-9 UI IO 05.0000 01/20/2040	0.04
1.50 R ISWP FWD NOKOIB6M P 09/18/2024	0.04
GNR 2017-57 AI IO 04.0000 06/20/2045	0.04
CAS 2017-C02 2M2 06.0544 09/25/2029	0.04
GNR 2016-H08 GI IO 01.4288 04/20/2066	0.04
ZHEJIANG EXPRESSWAY CO-H SEDOL 6990763	0.04
JPMCC 2006-LDP9 AMS 05.3370 05/15/2047	0.04
ITAUSA-INVESTIMENTOS ITAU-PR SEDOL 2458771	0.04
FHR 4568 MI IO 04.0000 04/15/2046	0.04
CAS 2017-C06 2M2 05.2044 02/25/2030	0.04
GNR 2018-127 IE IO 03.5000 01/20/2046	0.04
KOREA INVESTMENT HOLDINGS CO SEDOL 6654586	0.04
POU CHEN SEDOL 6696157	0.03
GNR 2018-127 ID IO 05.0000 07/20/2045	0.03
EL PUERTO DE LIVERPOOL-C1 SEDOL 2306814	0.03
GNR 2016-H16 DI IO 02.2609 06/20/2066	0.03
CGCMT 2015-GC27 D P/P 144A 04.5749 02/10/2048	0.03
GNR 2015-H16 XI IO 02.0080 07/20/2065	0.03
FIRSTRAND LTD SEDOL 6606996	0.03
ENEL CHILE SA-ADR SEDOL BYYHKR1	0.03
GNR 2013-20 QI IO 04.5000 12/16/2042	0.03
THANACHART CAPITAL-FOREIGN SEDOL BF5DGN3	0.03
GNR 2011-17 S IO 03.6671 02/20/2041	0.03
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.03
ASTRAL FOODS LTD SEDOL 6342836	0.03
PETROLEOS MEXICANOS USD 06.3750 01/23/2045	0.03
GECCM 2005-C1 D 04.5612 06/10/2048	0.03

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CWHL 2005-3 1A1	03.0244	04/25/2035	0.03
GNR 2009-121 UI IO	05.0000	12/20/2039	0.03
GNR 2015-124 NI IO	03.5000	06/20/2039	0.03
GNR 2010-20 UI IO	05.0000	02/20/2040	0.03
IOS.FN30.350.12 R USL1M P	01/12/43	CS	0.03
FNR 2013-35 PI IO	03.0000	02/25/2042	0.03
GNR 2016-H04 KI IO	01.7874	02/20/2066	0.03
SPY 20200221 P 240.00CITI			0.03
GNR 2014-163 NI IO	05.0000	02/20/2044	0.02
GNR 2015-24 IA IO	03.5000	02/20/2045	0.02
ATACADAO SA	SEDOL BF7LBH4		0.02
ESTACIO PARTICIPACOES SA	SEDOL B23PBF7		0.02
KT CORP	SEDOL 6505316		0.02
WFMB 2006-AR6 7A2	04.8135	03/25/2036	0.02
MANILA ELECTRIC COMPANY	SEDOL B247XZ6		0.02
CMB CMBX.NA.BB.7 2047-01-17	500.0	01/17/2047	0.02
NOK/USD 09/18/2019 GSF			0.02
FHR 4097 PI IO	03.5000	11/15/2040	0.02
GNR 2010-134 ES IO	03.6171	11/20/2039	0.02
GNR 2013-24 PI IO	04.0000	11/20/2042	0.02
LOJAS RENNER S.A.	SEDOL B0CGYD6		0.02
GNR 2015-H18 IA IO	01.8221	06/20/2065	0.02
GNR 2015-H10 EI IO	01.6266	04/20/2065	0.02
CMB CMBX.NA.BBB-.7 2047-01-17	300.0	01/17/2047	0.02
FHR 4073 AS IO	03.6558	08/15/2038	0.02
GNR 2013-79 XI IO	03.5000	11/20/2039	0.02
FHR 4206 IP IO	03.0000	12/15/2041	0.02
FHR 4099 BI IO	03.5000	06/15/2039	0.02
PETROLEOS DE VENEZUELA S REGS	05.3750	04/12/2027	0.02
GNR 2011-H15 AI IO	01.5341	06/20/2061	0.02
1.65 R ISWP FWD CDOR03 P	09/18/2024		0.02
AUD/JPY PUT 73.00 20190917	HSBCB		0.02
SPY 20200117 P 230.00CITI			0.02
GNR 2013-129 SN IO	03.7671	09/20/2043	0.01
FHR 4193 PI IO	04.0000	03/15/2043	0.01
IOS.FN30.400.14 R USL1M P	01/12/45	GS	0.01
IOS.FN30.400.14 R USL1M P	01/12/45	CS	0.01
GNR 2013-157 IA IO	03.5000	04/20/2040	0.01
PROVINCIA DE BUENOS P/P	53.8927	05/31/2022	0.01
GNR 2015-96 NI IO	03.5000	01/20/2039	0.01
IOS.FN30.350.14 R USL1M P	01/12/45	CS	0.01
FNR 2012-151 PI IO	03.0000	01/25/2043	0.01
GNR 2014-133 AI IO	04.0000	10/20/2036	0.01
NOK/USD 09/18/2019 BANKAM			0.01
GNR 2015-99 LI IO	04.0000	07/20/2045	0.01

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FHR 3747 SA IO	04.1058	10/15/2040	0.01	
GNR 2015-82 GI IO	03.5000	12/20/2038	0.01	
CMB CMBX.NA.BB.6 2063-05-11	500.0	05/11/2063	CS	0.01
GNR 2013-100 MI IO	03.5000	02/20/2043	0.01	
CAS 2015-C02 2M2	06.4044	05/25/2025	0.01	
GNR 2013-23 IK IO	03.0000	09/20/2037	0.01	
REPUBLIC OF VENEZUELA	REGS 07.6500	04/21/2025	0.01	
ASTRO MALAYSIA	SEDOL B7W5GK3		0.01	
FNR 2012-136 PI IO	03.5000	11/25/2042	0.01	
GNR 2010-35 QI IO	04.5000	03/20/2040	0.01	
GNR 2013-102 IP IO	03.5000	06/20/2043	0.01	
-0.70 R ISWP FWD CHL6M P		09/18/2024	0.01	
GNR 2012-141 WI IO	03.5000	11/20/2041	0.01	
PETROBRAS GLOBAL FIN	USD 05.2990	01/27/2025	0.01	
NOK/USD 09/18/2019 RBSF			0.01	
FNR 2013-31 NI IO	03.0000	06/25/2041	0.01	
NOK/USD 09/18/2019 BCAP-FX			0.01	
1.80 R ISWP FWD CDOR03 P		09/18/2029	0.01	
INNOLUX CORP	SEDOL B0CC0M5		0.01	
CMB CMBX.NA.BB.7 2047-01-17	500.0	01/17/2047	GS	0.01
NOK/USD 09/18/2019 SSBT			0.01	
BSCMS 2006-PW11 C P/P 144A	05.8095	03/11/2039	0.01	
NOK/USD 09/18/2019 JPMCB			0.01	
IOS.FN30.650.67 R USL1M P		01/12/38	BC	0.01
JPY/USD 08/21/2019 JPMCB			0.01	
0.60 R ISWP FWD SES3M P		09/18/2029	0.00	
IOS.FN30.400.10 R USL1M P		01/12/41	BA	0.00
IOS.FN30.400.10 R USL1M P		01/12/41	BA	0.00
1.75 R ISWP FWD US0003M P		09/18/2024	0.00	
IOS.FN30.400.10 R USL1M P		01/12/41	JP	0.00
CMB CMBX.NA.BBB-.7 2047-01-17	300.0	01/17/2047	MS	0.00
EUR/USD 09/18/2019 SSBT			0.00	
SWPTN 10YX20Y R 2.785	USD	01/25/2027	BA	0.00
GBP/USD 09/18/2019 BANKAM			0.00	
CMB CMBX.NA.BB.9 2058-09-17	500.0	09/17/2058	CS	0.00
CMB CMBX.NA.BB.9 2058-09-17	500.0	09/17/2058	CG	0.00
AUD/USD 07/17/2019 WPAC			0.00	
CMB CMBX.NA.BB.11 2054-11-18	500.0	11/18/2054	CG	0.00
IOS.FN30.400.10 R USL1M P		01/12/41	CI	0.00
3.312 R ISWP US0003M P		11/08/2048	0.00	
CMB CMBX.NA.BB.7 2047-01-17	500.0	01/17/2047	JP	0.00
IOS.FN30.350.12 R USL1M P		01/12/43	CS	0.00
CMB CMBX.NA.BB.9 2058-09-17	500.0	09/17/2058	ML	0.00
CMB CMBX.NA.BB.9 2058-09-17	500.0	09/17/2058	MS	0.00
CMB CMBX.NA.BB.9 2058-09-17	500.0	09/17/2058	CG	0.00

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CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BC	0.00
0.10 R ISWP FWD SES3M P 09/18/2024	0.00
SWPTN 10YX20Y P 2.785 USD 01/25/2027 BA	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CS	0.00
EUR/USD 09/18/2019 GSFX	0.00
INR/USD 11/20/2019 GSFX	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.00
NZD/USD 07/17/2019 SSBT	0.00
INR/USD 11/20/2019 RBSF	0.00
SWPTN 3YX30Y R 2.3075 USD 06/20/2022 BA	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 MS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 GS	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.00
SWPTN 3YX30Y P 2.3075 USD 06/20/2022 BA	0.00
IDR/USD 11/20/2019 HSBCB	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 CG	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 MS	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 ML	0.00
CMB CMBX.NA.BB.10 2059-11-17 500.0 11/17/2059 ML	0.00
GNR 2013-90 HI IO 03.5000 04/20/2040	0.00
1.70 R ISWP FWD US0003M P 09/18/2021	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.00
SWPTN 5YX30Y R 2.8325 USD 02/15/2022 JP	0.00
GMACC 2004-C3 X1 IO P/P 144A01.0977 12/10/2041	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CS	0.00
CMB CMBX.NA.BB.8 2057-10-17 500.0 10/17/2057 CG	0.00
TWD/USD 08/21/2019 RBSF	0.00
MXN/USD 10/16/2019 BANKAM	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.00
MLCFC 2006-4 XC IO P/P 144A00.7645 12/12/2049	0.00
1.9448 R ISWP US0003M P 06/26/2029	0.00
EUR/USD 09/18/2019 CSI-FX	0.00
1.9451 R ISWP US0003M P 06/26/2029	0.00
TWD/USD 08/21/2019 GSFX	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00
GNR 2011-116 IB IO 05.0000 10/20/2040	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00

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CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	0.00
SWPTN 10YX20Y R 2.8175 USD 03/23/2027 GS	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	0.00
2.2225 R ISWP FWD US0003M P 06/05/2029	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00
-0.25 R ISWP FWD EUR006M P 09/18/2024	0.00
KRW/USD 11/20/2019 HSBCB	0.00
1.60 R ISWP FWD AUDBB6M P 09/18/2029	0.00
2.3075 R ISWP FWD US0003M P 06/22/2052	0.00
KRW/USD 11/20/2019 GSFY	0.00
EUR/USD 09/18/2019 JPMCB	0.00
2.184 R ISWP FWD US0003M P 12/07/2030	0.00
1.45 R ISWP FWD NFIX3MID P 09/18/2024	0.00
GBP/USD 09/18/2019 SSBT	0.00
SWPTN 10YX20Y P 2.8175 USD 03/23/2027 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
RUB/USD 09/18/2019 GSFY	0.00
SEK/USD 09/18/2019 RBSF	0.00
EUR/USD 09/18/2019 UBS	0.00
2.67 R ISWP FWD US0003M P 03/28/2052	0.00
BRL/USD 10/02/2019 CITI	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
2.25 R ISWP FWD US0003M P 09/18/2049	0.00
EUR/USD 09/18/2019 RBSF	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00
1.80 R ISWP FWD NFIX3MID P 09/18/2029	0.00
EUR/USD 09/18/2019 CITI	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00
CHF/USD 09/18/2019 JPMCB	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 BC	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00
0.20 R ISWP FWD EUR006M P 09/18/2029	0.00

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CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BC	0.00
CAD/USD 07/17/2019 CITI	0.00
SWPTN 5YX30Y P 2.8325 USD 02/15/2022 JP	0.00
NZD/USD 07/17/2019 BCAP-FX	0.00
0.85 R ISWP FWD GBL6M P 09/18/2024	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 CG	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00
EUR/USD 09/18/2019 BCAP-FX	0.00
SEK/USD 09/18/2019 UBS	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
SEK/USD 09/18/2019 JPMCB	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
AUD/JPY PUT 69.00 20190917 HSBCB	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
SEK/USD 09/18/2019 SSBT	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01
JPY/USD 08/21/2019 HSBCB	-0.01
NZD/USD 07/17/2019 CITI	-0.01
SPY 20190712 C 300.00JPMCB	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
EUR/USD 09/18/2019 BANKAM	-0.01
2.00 R ISWP FWD US0003M P 09/18/2029	-0.01
AUD/USD 07/17/2019 BANKAM	-0.01
CAD/USD 07/17/2019 BCAP-FX	-0.01
SEK/USD 09/18/2019 GSFX	-0.01
IOS.FN30.350.12 P USL1M R 01/12/43 BC	-0.01
JPY/USD 08/21/2019 BANKAM	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CG	-0.01
JPY/USD 08/21/2019 GSFX	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
GTT US P US0001M R 07/05/22 CI	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.01
IOS.FN30.300.13 P USL1M R 01/12/44 GS	-0.01
NZD/USD 07/17/2019 JPMCB	-0.01
NZD/USD 07/17/2019 GSFX	-0.01

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CAD/USD 07/17/2019 JPMCB	-0.01
1.25 R ISWP FWD AUDBB6M P 09/18/2024	-0.01
JPY/USD 08/21/2019 UBS	-0.02
1.70 R ISWP FWD NOKOIB6M P 09/18/2029	-0.02
AUD/USD 07/17/2019 RBSF	-0.02
JPY/USD 08/21/2019 CITI	-0.02
1.00 R ISWP FWD GBL6M P 09/18/2029	-0.02
IOS.FN30.350.12 P USL1M R 01/12/43 GS	-0.02
AUD/USD 07/17/2019 UBS	-0.02
IOS.FN30.400.14 P USL1M R 01/12/45 JP	-0.02
IOS.FN30.400.10 P USL1M R 01/12/41 CS	-0.02
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.02
AUD/USD 07/17/2019 CSI-FX	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
JPY/USD 08/21/2019 SSBT	-0.03
JW/A US P US0001M R 07/05/22 CI	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.03
INGN US P R 07/05/22 CI	-0.03
-0.30 R ISWP FWD CHL6M P 09/18/2029	-0.03
1.80 R ISWP FWD US0003M P 09/18/2024	-0.03
UA US P R 07/05/22 CI	-0.03
IOS.FN30.400.14 P US0001M R 01/12/45 JP	-0.04
SPY 20190628 C 288.50BANKAM	-0.05
DBD US P R 07/05/22 CI	-0.05
HOMB US P US0001M R 07/05/22 CI	-0.05
KLIC US P US0001M R 07/05/22 CI	-0.05
APPN US P US0001M R 07/05/22 CI	-0.06
EBIX US P R 07/05/22 CI	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	-0.07
EPC US P US0001M R 07/05/22 CI	-0.07
BGS US P R 07/05/22 CI	-0.07
BCPC US P US0001M R 07/05/22 CI	-0.07
OMCL US P US0001M R 07/05/22 CI	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.08
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.08
HUBS US P R 07/05/22 CI	-0.08
PBH US P US0001M R 07/05/22 CI	-0.09
PCTY US P R 07/05/22 CI	-0.09
EYE US P US0001M R 07/05/22 CI	-0.09
ACIW US P R 07/05/22 CI	-0.09
SUPN US P US0001M R 07/05/22 CI	-0.09
DLB US P US0001M R 07/05/22 CI	-0.09
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.09
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.09
PTC US P R 07/05/22 CI	-0.10

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CBPO US P US0001M R 07/05/22 CI	-0.10
QLYS US P US0001M R 07/05/22 CI	-0.11
BRKR US P US0001M R 07/05/22 CI	-0.11
COTY US P US0001M R 07/05/22 CI	-0.11
INST US P US0001M R 07/05/22 CI	-0.11
AJRD US P R 07/05/22 CI	-0.12
MDSO US P R 07/05/22 CI	-0.13
MDRX US P US0001M R 07/05/22 CI	-0.13
SIG US P R 07/05/22 CI	-0.13
BWXT US P US0001M R 07/05/22 CI	-0.14
CTLT US P US0001M R 07/05/22 CI	-0.16
TRMB US P US0001M R 07/05/22 CI	-0.16
JBL US P US0001M R 07/05/22 CI	-0.18
GWRE US P US0001M R 07/05/22 CI	-0.19
PKI US P US0001M R 07/05/22 CI	-0.20
TGI US P R 07/05/22 CI	-0.22
MTZ US P US0001M R 07/05/22 CI	-0.22
HBI US P R 07/05/22 CI	-0.22
OSK US P US0001M R 07/05/22 CI	-0.23
ICLR US P R 07/05/22 CI	-0.23
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.27
PODD US P US0001M R 07/05/22 CI	-0.31
VAR US P R 07/05/22 CI	-0.37
CERN US P R 07/05/22 CI	-0.38
TXT US P US0001M R 07/05/22 CI	-0.39
DPZ US P US0001M R 07/05/22 CI	-0.50
NDUEEGF P US0001M R 12/12/19 GS	-0.52
AMD US P US0001M R 07/05/22 CI	-0.55
KMX US P US0001M R 07/05/22 CI	-0.56
IQV US P R 07/05/22 CI	-0.57
RL US P US0001M R 07/05/22 CI	-0.59
NTAP US P US0001M R 07/05/22 CI	-0.65
TSLA US P R 07/05/22 CI	-0.72
K US P R 07/05/22 CI	-0.81
CTXS US P US0001M R 07/05/22 CI	-0.84
NDUEEGF P US0003M R 09/20/19 CI	-1.24
NDUEEGF P US0003M R 03/19/20 CI	-2.70
NDUEEGF P US0001M R 08/21/19 UB	-7.48
S&P500 EMINI FUT SEP19 ESU9	-10.31
NDUEEGF P US0001M R 02/12/20 CS	-13.23
RU10INTR P US0003M R 11/26/19 CI	-19.29
GSGLPW2S P US0001M R 12/15/20 GS	-32.94
GSGLPWDS P US0001M R 12/15/20 GS	-33.00
RU10INTR P US0003M R 06/20/23 BA	-41.28